# Product Development Workshop Part 7: Product Monitoring/Risk Management 2011 CAS Ratemaking and Product Management Seminar March 20, 2011 Kelly McKeethan, FCAS, MAAA, CPCU Proprietary & Confidential Bankof America

## Product Development Workshop Part 7: Product Monitoring/Risk Management Outline Subjective Metrics 3 Internal • External Objective Metrics 4-5 • Early Predictors – Portfolio Analysis Losses Premiums Expenses Other Metrics – Group Discussion 5 Other Examples 2011 CAS RPM Seminar - March 20, 2011 Bank of America

# Product Development Workshop Part 7: Product Monitoring/Risk Management

### Subjective Metrics

- Good predictor of success do you have buy-in from the staff?
  - Sales
  - ServiceMarketing
  - Other Functional Areas all need to be considered in product design
  - New product usually means new processes , especially if a modification to an existing product – need everyone on board
- External Buy-In key customers
  - Once again, need to consider in product design
- Both Internal and External important to capture feedback immediately after product launch – what happens after the theoretical is translated into reality
- More soft and fuzzy than hard numbers, but still critical to gauge

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# Product Development Workshop Part 7: Product Monitoring/Risk Management Objective Metrics • 1. Win Rate on Quotes – early indicator of competitiveness and rate adequacy • 2. Portfolio Analysis (Profile of Business) Distribution of business by key variables – Geography • Limits Customer Age Credit Score • Important - customer characteristics drive loss and revenue exposures Retention – important component if existing book is being converted to new product – compare portfolio analysis of existing book postconversion vs. pre-conversion – good measure of impact on adverse Losses Analyze reported losses as early as possible – first indicator of experience Compare with expected losses – need to consider timeframe – e.g. calendar year, accident year, report year, etc. Claim approval/denial rates – measure impact of new processes 2011 CAS RPM Seminar **Bank of America** oduct Development Workshop Part 7: Product Monitoring/Risk Management Objective Metrics (continued) Revenue – impacts expense ratio – compare average premium to plan Expenses Underwriting • Time spent on new processes – verification Manual Re-Rating due to errors Marketing Sales – talk time Service – talk time Time spent re-issuing policies due to errors • Finance – need to properly account for new product Actuarial • Time spent on verification of rate accuracy Opportunity Cost – how many rate filings are not made due to time spent on rate checking – quantifiable Group Discussion Above Items Others? 2011 CAS RPM Seminar Bank of America Product Development Workshop Part 7: Product Monitoring/Risk Management Case Study Background – Small Personal Auto Insurer • Replaced Traditional 3-Tier Product with 15-Tier Product Implemented on Platform developed by outside vendor – replaced Legacy · Rolled out an initial state and then a few states/month Subjective Metrics • Internal – all areas participated in product design Process Design – internal areas made desires known not all were implemented - give and take Made decision to go live when estimated that 80% of items in manual were working- wtd avg Shortfall– didn't give as much weight to operational impact as we should have • External – did not conduct focus group surveys 2011 CAS RPM Seminar Bank of America

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Case Study (continued)	
Results	
Objective Metrics	
<ul> <li>Profile of New Business – similar to expected</li> </ul>	
<ul> <li>Losses – very well-managed – loss ratios dropped</li> </ul>	
<ul> <li>Premium Volume – suffered –</li> </ul>	
<ul> <li>Retention was very low – more a matter of the new processes</li> </ul>	
than of the new product – many errors in premiums that were	
sent to customers	
<ul> <li>Expense Ratio climbed as premium dropped</li> </ul>	
<ul> <li>Opportunity Cost – entire actuarial department spent 6 months checki rates – lost revenue</li> </ul>	cking
Comments?	
• Comments:	
Other Experiences?	
other Experiences.	
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